

PREDICTIVE POLICING

Presenter

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PredPol

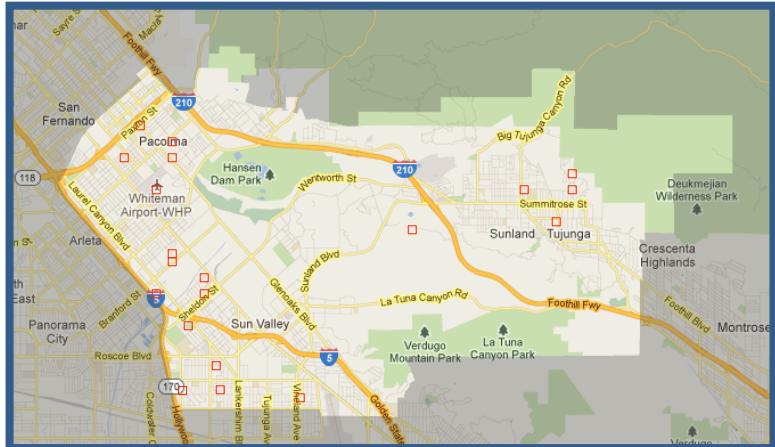
Predict Crime in Real Time™
March 2013

Predictive Policing is...

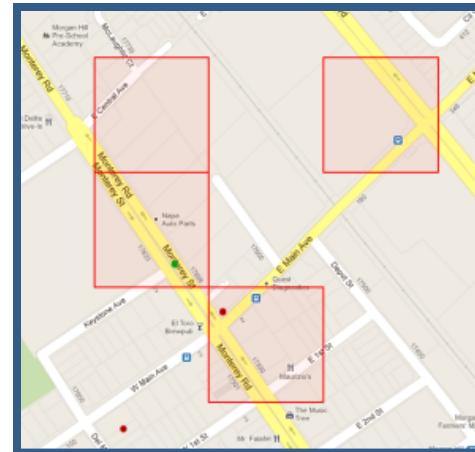
- **Software technology** that predicts the time and place of future crimes
- **High level mathematics** combined with experienced crime analysts and veteran police using their own knowledge and experience
- **More than “rear view mirror” policing** that simply maps past crime

Deployment to Officers in the Field

- Lists or Maps of predictions in 500' x 500' boxes
- Distributed at start of shift or on-demand
- 'Get in the Box' to disrupt crime during patrols



LAPD Foothill Division Deployment
starting 7 Nov 11



Santa Cruz PD Deployment
starting 1 Jul 11

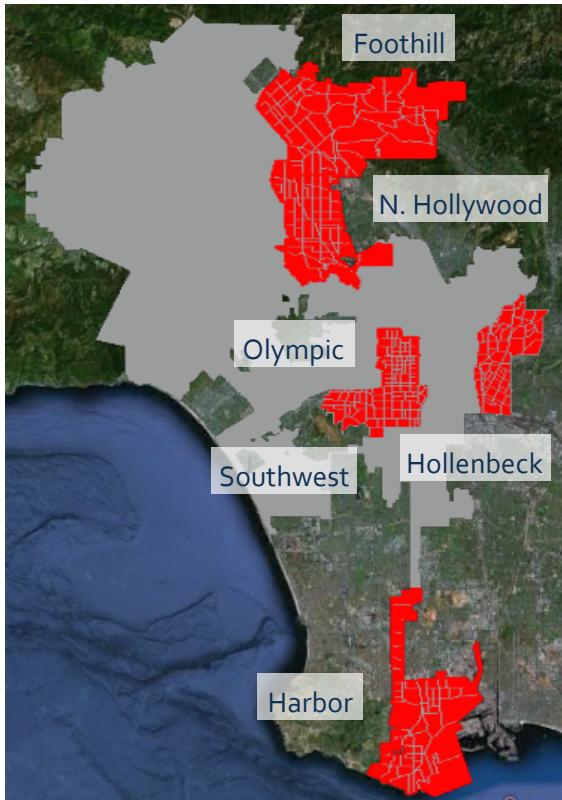
Predictive Policing in Santa Cruz, CA



▼ 19%

Santa Cruz burglaries
1st half 2011 vs. 1st half 2012

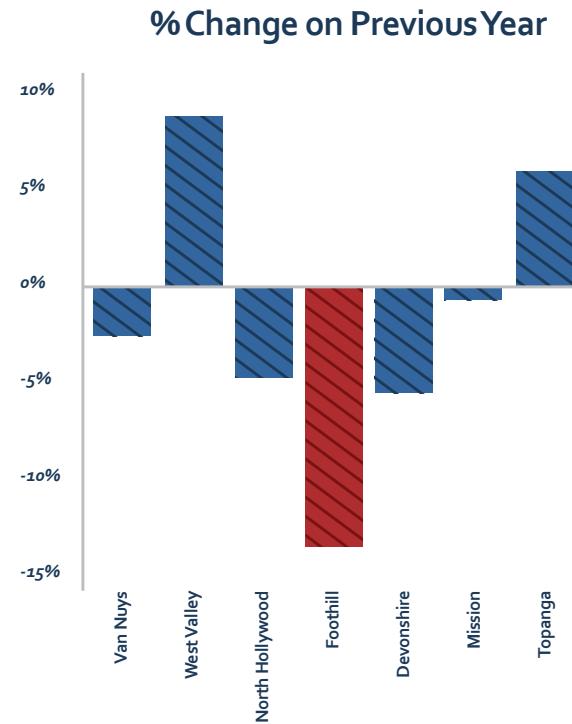
Predictive Policing in Los Angeles, CA



*130 square miles
1.3 million people*

Predictive Policing in Los Angeles, CA

How do we know it worked in LA?



LA Foothill Division

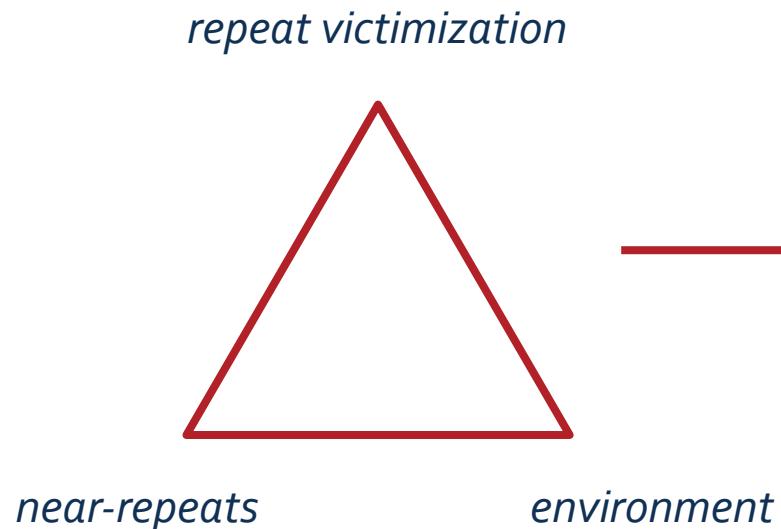
▼ 12%

Rest of LA

▲ 0.4%



The Science

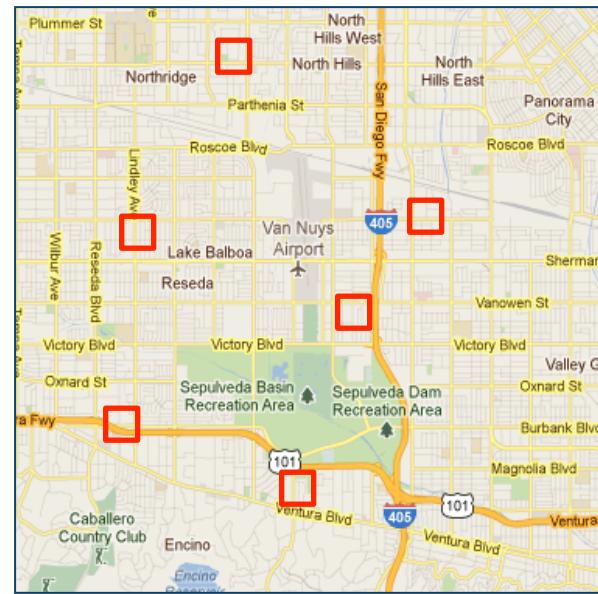
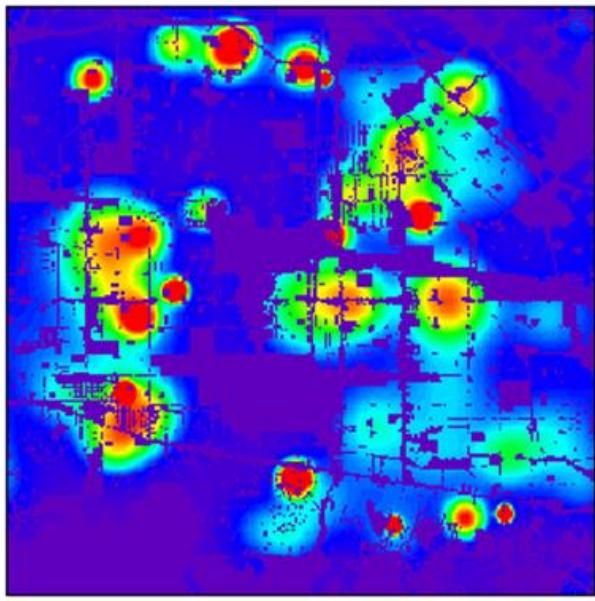


offender behavior

$$\frac{\partial B}{\partial t} = \frac{\eta D}{4} \nabla^2 B - \omega B + \theta \omega \delta$$

mathematical model

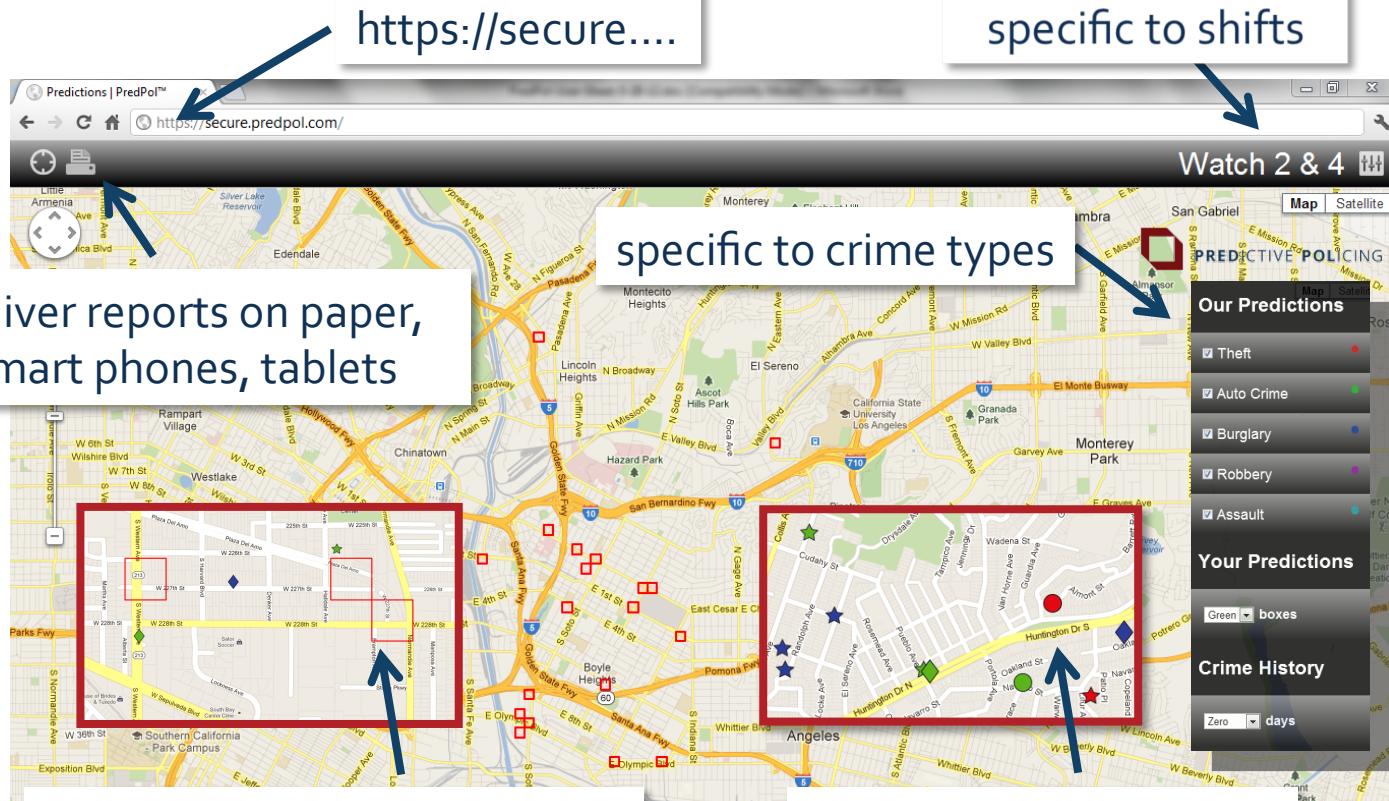
Making Predictive Policing Practical



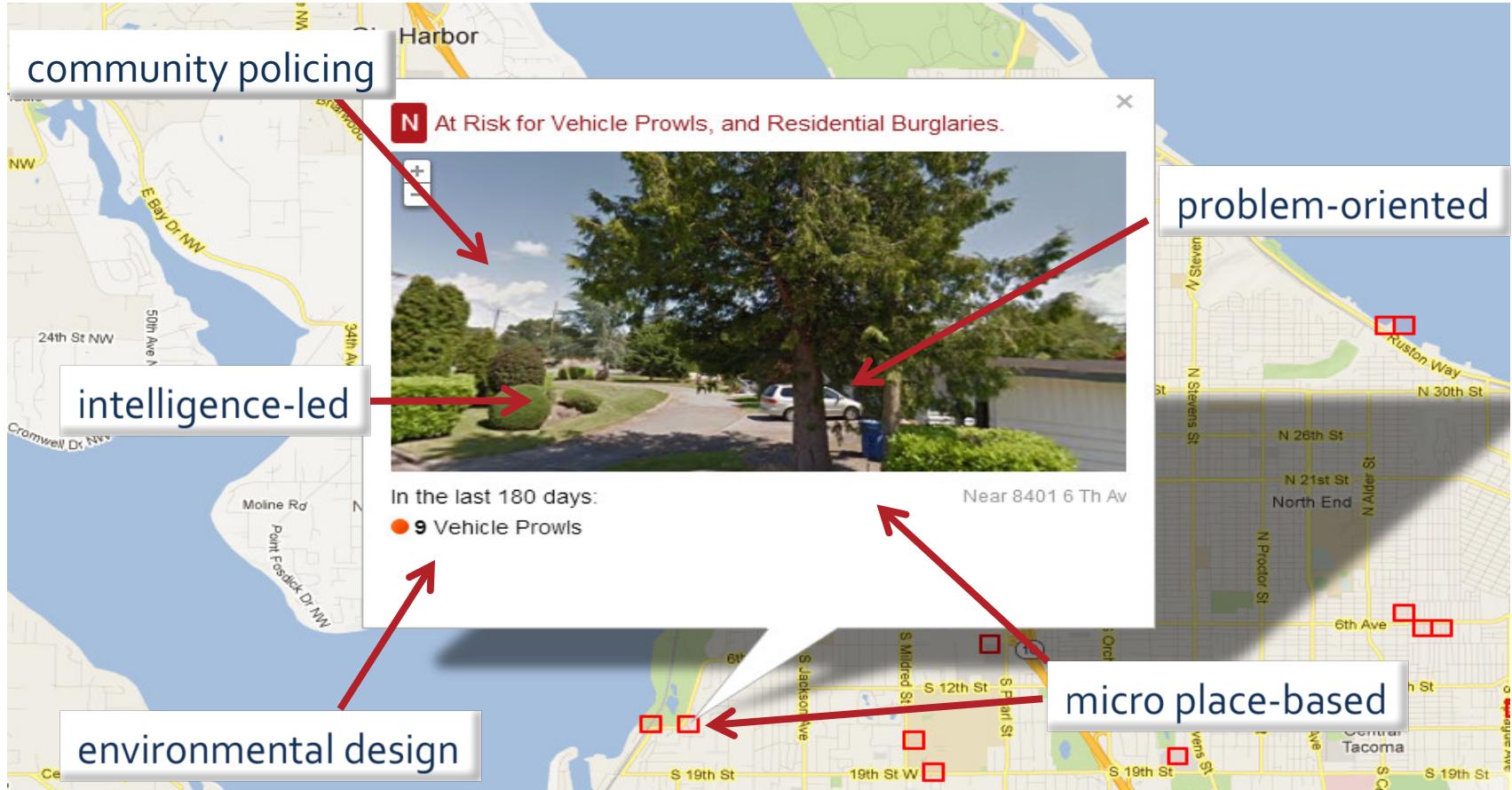
tactical ambiguity

tactical clarity

Day-to-Day Use



'Get in the Box'



PredPol

is NOT

- A replacement for knowledge, skills & experience
- Profiling of individuals
- Probable cause
- New hardware or new hires

IS

- More efficient & effective policing
- Assigning probabilities of crime in space and time
- Focal points for effective use of police resources
- Use of existing crime data

PredPol Deployments

Current & Near Term Deployments

- Los Angeles, CA
- Santa Cruz, CA
- Morgan Hill, CA
- Fairfield, CA
- Atlanta, GA
- Los Gatos/Monte Sereno, CA
- Campbell, CA
- Tacoma, WA
- Salinas, CA
- Alhambra, CA
- Lansing, MI
- Seattle, WA
- San Francisco, CA
- Elgin, IL
- UK, Mexico & Australia
- Columbia, SC
- Manhattan, KS
- San Jose, CA (traffic)
- Palo Alto, CA
- Mountain View, CA
- Milpitas, CA